

**HETEROARYL, HETEROCYCLIC AND ARYL COMPOUNDS  
WHICH INHIBIT LEUKOCYTE ADHESION MEDIATED BY VLA-4**

**CROSS-REFERENCE TO RELATED APPLICATIONS**

This application claims the benefit of U.S. Serial No. 60/116,923,  
filed January 22, 1999, and U.S. Serial No. 60/160,999, filed October 21,  
1999; the disclosures of which are incorporated herein by reference in their  
entirety.

**BACKGROUND OF THE INVENTION**

Field of the Invention

This invention relates to compounds which inhibit leukocyte adhesion  
and, in particular, leukocyte adhesion mediated by VLA-4.

References

The following publications, patents and patent applications are cited  
in this application as superscript numbers:

- <sup>1</sup> Hemler and Takada, *European Patent Application Publication*  
*No. 330,506*, published August 30, 1989
- <sup>2</sup> Elices, et al., *Cell*, 60:577-584 (1990)
- <sup>3</sup> Springer, *Nature*, 346:425-434 (1990)
- <sup>4</sup> Osborn, *Cell*, 62:3-6 (1990)
- <sup>5</sup> Vedder, et al., *Surgery*, 106:509 (1989)
- <sup>6</sup> Pretolani, et al., *J. Exp. Med.*, 180:795 (1994)
- <sup>7</sup> Abraham, et al., *J. Clin. Invest.*, 93:776 (1994)